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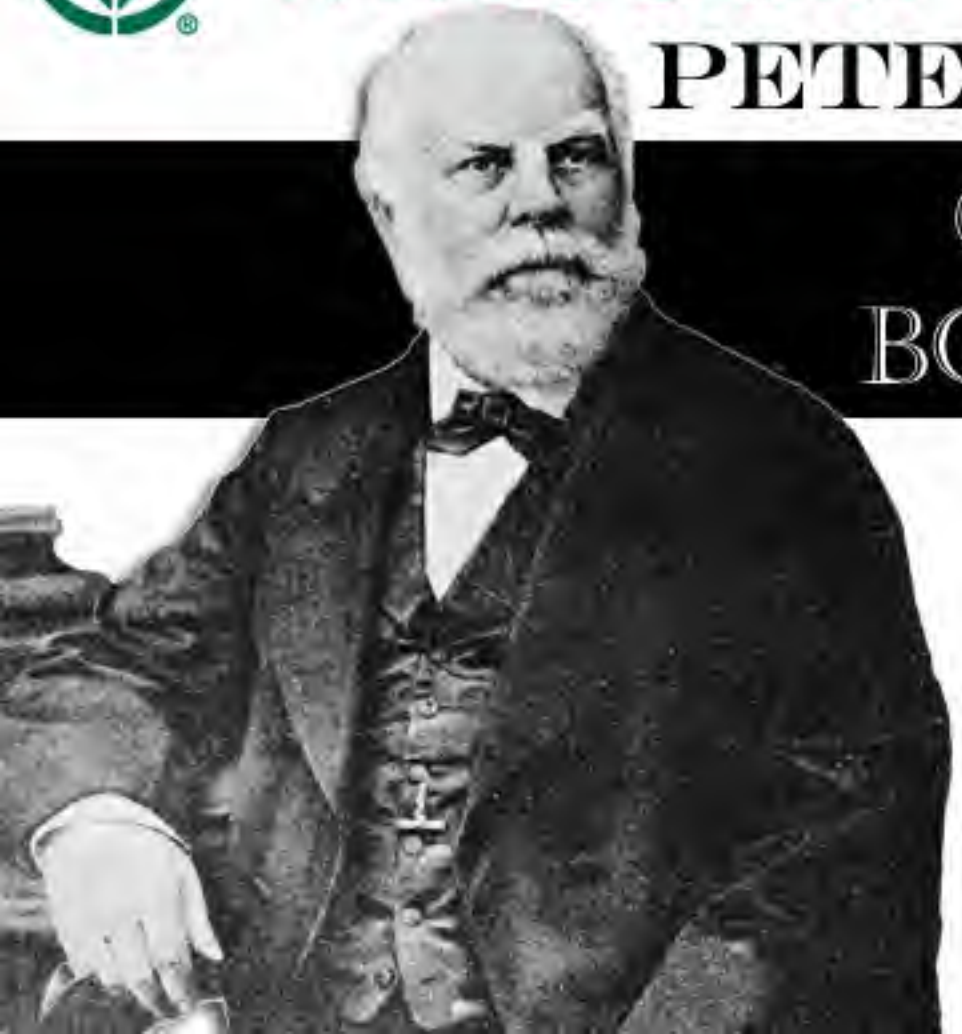

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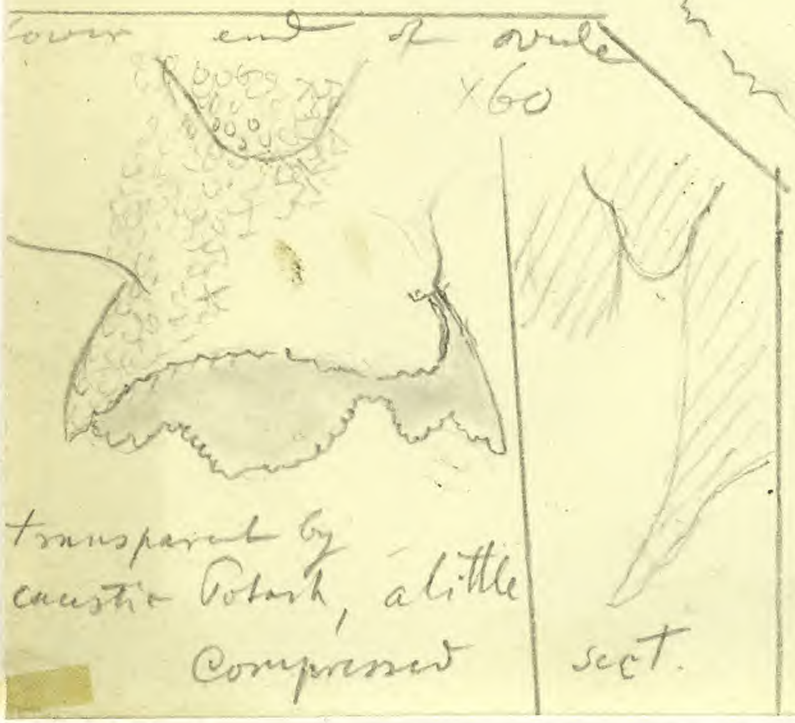
Since many of the items lack a specific page number, the page number displayed online refers to the sequentially created number each item was given upon cataloging the materials.

"Abies balsamea"

Hort Bot Cantab. 9 June 1863

June 1863

back or convex side of scale with micropyle apical



transparent by caustic potash, a little compressed

sect.

s. single ovules

whole scale

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Abies balsamea

Aug 28 1867

Germantown Pa. cult. Mechan nursy

×10

top view

all the seeds examined showed 4 Cotyledons.

×2

a, small wing
seed provided with
oil cells or vesicles,

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"supposed Abies Fraseri from Mansfield, Vermont
but A. balsamea" A Gray mi 1872

June 2 1872

Stomata on both sides of leaf

Leaves acute, or on small branchlets obtuse, carinate below, flat or convex above

Recurved tip of large bract protruding beyond scales, about the length of its own scale

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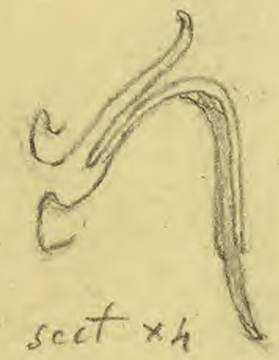
"Abies balsamea" June 2nd 1873

H.G. Cambridge June 2nd 1873

Young cone or
fem. ament just after flowering

young cone
just after



sect x4
showing
position of bract
and proportion

x4

or dorsal
front view
scale pulled out,
bract removed

x4

back view
or upper side
of scale with ovules
and the erected
bract

Grain of Pollen x415

Male ament x4

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Abies balsamea — Dec 10 1874

Isle Royale, Lake Superior

H Gillman July 21 1874

immature

×2

wing 4–5 mm with
8 long
body 5 long

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PHARMACEUTICAL CHEMIST,

No. 301 South Fifth Street, Cor. Myrtle, ST. LOUIS.

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A (Brocei?) Calyptra Oct 6 1875

P. A. Lapham Manitou Islands Lake Michigan

covered with stomata

x10

5=6 rows of stom. in each band

covered with stomata

scarcely any hypodermal cells on edges of leaf

none on upper surface

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Abies balsamea

H. B. Cambridge May 1863

May & Jun
1863

×4.15

111
0.056

tips of leaves ×10

111
0.060

×4

×10

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$15

23.30 / 0056
20 75
25 50
24 90

2500 / 0060
2490
0100

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SOUTH-EAST CORNER OF FOURTH AND MARKET STREETS,
ST. LOUIS.

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Abies balsamea

June 1865

H. B. Nisson June 5th 1865 long after flowering time.

0,048

×415

opaque and not sufficiently expanded by water

0.054

0.051

base & side of young cone

nat size

bract ×4

adherent part of bract

×4

×10

anthers with or without knob

H.B. Miss. May 7 1865

pollen purple but anthers remain unopen

24 – 26,2 / 915 = 0,056 – 0,063

mostly 59 – 60

49 – 57 / 415 = 0,12 – 0,13 m –

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49a 5
415

570
415
1350 3
1255

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4 tb

A Fraseri

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"(A Fraser) Gibson Oct 2 1875

Vermont

×30

covered with stomata

Veins & lines in a heart

edged leaf

Dye & Keek with hypoderm, none on upper side

G. W. Eveleth, M.D.
Yale Forest School
New Haven, Conn.

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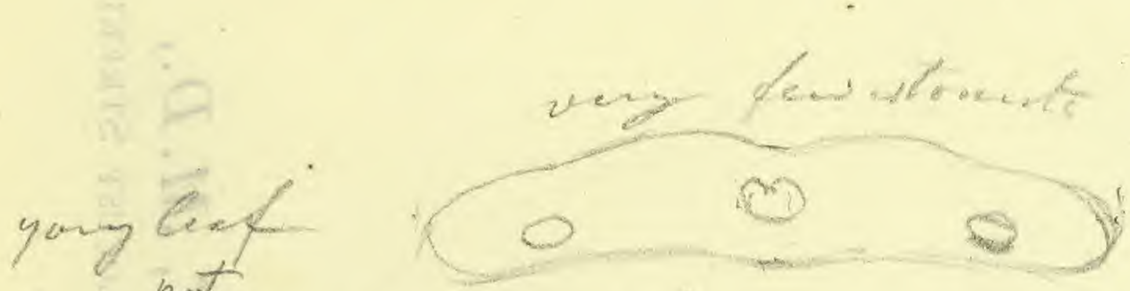
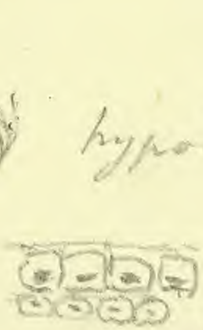
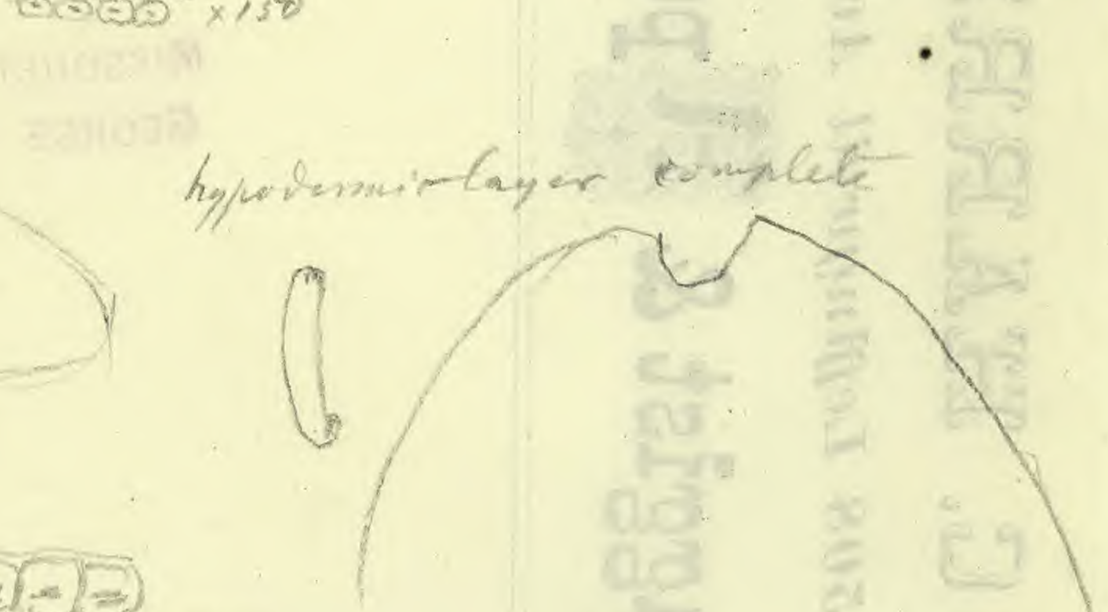
A Fasoni

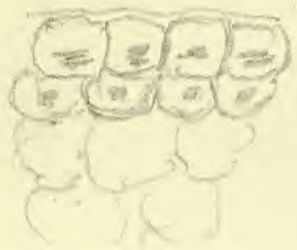
Oct 06 2 1875

N Carolina, Buckley









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Abies Fraseri
Black Mountain, N.C. Wm Canby Jan 1876

Jan 23 1876

x30

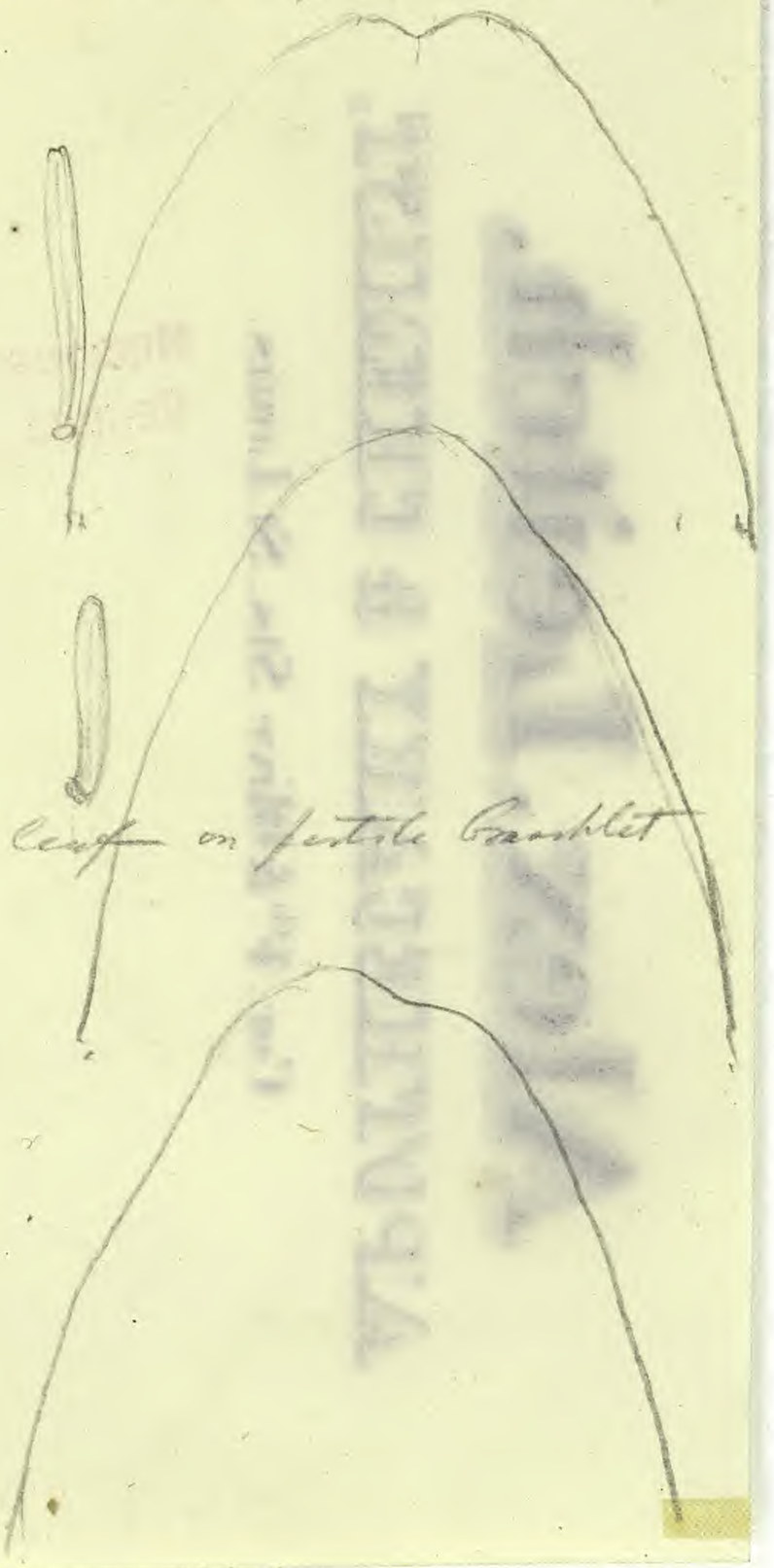
8

8 lines of stomata

12

12 lines of stomata

8–10 lines of stom



Obtuse leaf on fertile branchlet

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Atriplex Patens
N Carolina, Canby
Jan 24 1876

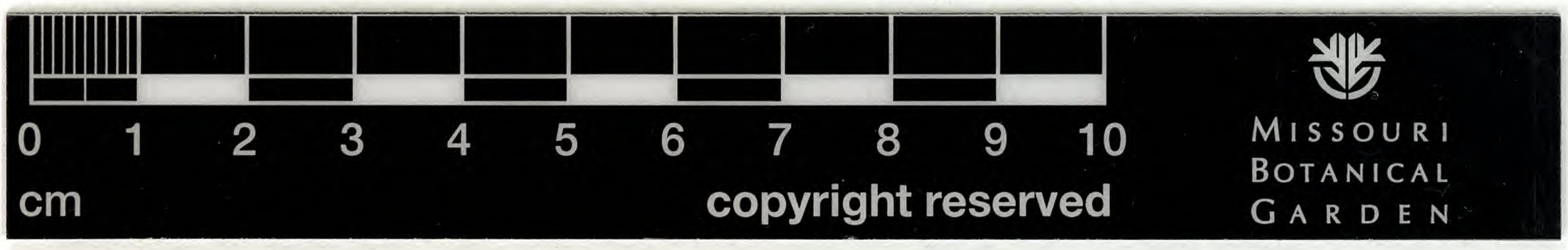
Epidermis of upper surface

x415

Hypodermic layer all over the upper surface

x 150

Stomata



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Abies Fraseri N Carol. Jan 28 1876

Abies Fraseri Roan Mountain N. Carol. Sept 8 1876

4 Cones 2.5" 2.2" 2.1" 1.11" long, say 2-2½ inches long
1"-1.2" thick " 1 inch thick.

scales 15-18 mm wide 15:9. = 5:3
8-10 mm high 16:10 or 8:5

seeds 5-6 mm long
wing 5-6 mm long and wide

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5 : 3

40 : 24

9 : 5

40 25

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Abies hudsonia

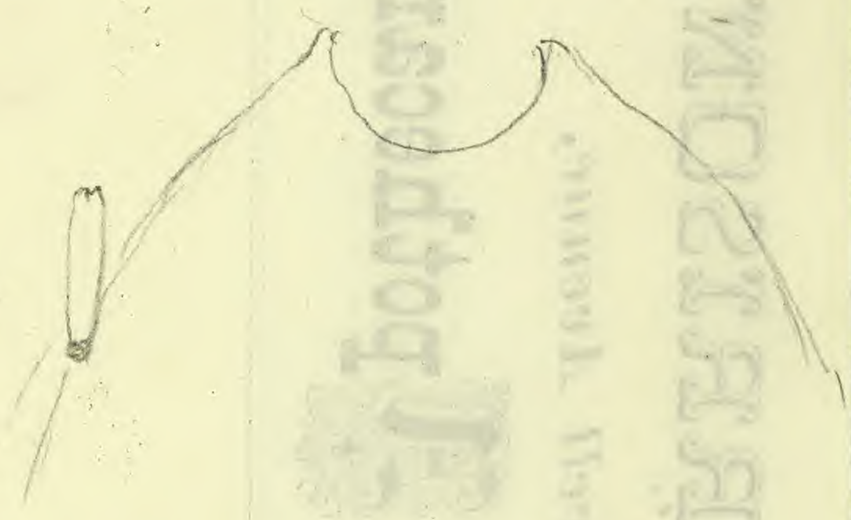
Oct 2 1875

= Hook for Bot London 1869 August

Line of very few stomata towards tip

young leaf of 1 year

6-7 lines of stomata in each band



no stomata

leaf 2 year old

no hypodermis bast cells above, scarcely any on sides and Keel

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